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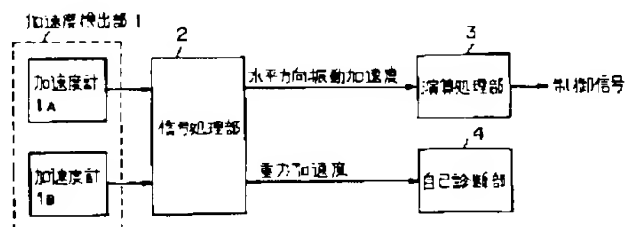
APPLICATION NUMBER : 07085612

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TITLE : SEISMOMETER



ABSTRACT : **PURPOSE:** To provide a highly reliable seismometer by which an operating state is self-diagnosed by a method wherein the acceleration of the gravity which is generated by tilting an input axis is always monitored.

CONSTITUTION: A seismometer is provided with an acceleration detection part 1 constituted of two accelerometers 1A, 1B whose input axes are arranged in two orthogonal axes, with a signal processing part 2 in which accelerations detected by the accelerometers are vectorially composed to a horizontal-direction acceleration and with a computing and processing part 3 which generates a control signal on the basis of the magnitude of the horizontal-direction acceleration. In the seismometer, the accelerometers are attached in such a way that their input axes are tilted from the horizontal direction. The seismometer is provided with a self-diagnostic part 4 which monitors a gravity acceleration detected by tilting the input axes.

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